

Neutrino Physics and the Cosmology/Astrophysics Connection: Key Opportunities

Format is section topic (**lead writer**)

1. Origin and nature of the cosmic rays (**Todor Stanev @ Bartol**)
2. GZK neutrino detection and new physics above a TeV (**Doug McKay @ Kansas**)
3. Neutrino probes of high energy astrophysical sources (**Peter Meszaros @ Penn State**)
4. Dark matter searches using neutrinos (**Jonathan Feng @ Irvine**)
5. Neutrinos as a probe of supernovae (**Tony Mezzacappa @ Oak Ridge**)
6. Supernova neutrinos as tests of particle physics (**George Fuller @ San Diego**)
7. Diffuse supernova neutrino background (**Terry Walker @ Ohio State**)
8. Measurements of neutrino-nucleus cross sections (**Vince Cianciolo @ Oak Ridge**)
9. Leptogenesis and the origin of the baryon asymmetry (**Hitoshi Murayama @ Berkeley**)
10. Precision big bang nucleosynthesis tests (**Keith Olive @ Minnesota**)
11. Precision cosmic microwave background tests (**Manoj Kaplinghat @ Davis**)
12. Neutrino mass and large scale structure (**Scott Dodelson @ Fermilab**)